EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John A. Smart (Registration No. 34,929) on 4/9/2008.

The application has been amended as follows:

In claim 1,

1. (Currently Amended) In a database system, a self-tuning method for performing recovery operations by dynamically adapting how many recovery threads are spawned during recovery, the method comprising:

(a) spawning an initial recovery thread to perform recovery operations **for at least one database that may require recovery**;

(b) measuring I/O (input/output) performance with the initial recovery thread;

(c) spawning a subsequent recovery thread to perform recovery

operations;

(d) measuring I/O performance with the subsequent recovery thread; and

(e) self-tuning how many threads are spawned by continuing, as long as

I/O performance does not degrade beyond a preselected

percentage, to repeat steps (c) and (d) for spawning a desired

number of additional recovery threads and when I/O performance

measured for a just-spawned recovery thread degrades beyond the

preselected percentage, putting the just-spawned recovery thread

to sleep;

wherein a user of the system is able to specify a particular number of

concurrent recovery threads, and wherein the system

generates an advisory if the particular number of concurrent

recovery threads specified can be changed to achieve better

I/O performance.

Claim 12 is cancelled.

In claim 15,

15. (Currently Amended) A database system performing self-tuning

recovery operations by dynamically adapting how many recovery

threads are spawned during recovery, the system comprising:

a computer having at least one processor;

a database system having at least one database that may require

recovery;

an initial recovery thread that is spawned to perform recovery operations,

wherein the system measures I/O (input/output) performance with

the initial recovery thread; and

a plurality of additional recovery threads that are spawned to perform

recovery operations, wherein the system dynamically adjusts how

many recovery threads are spawned based on I/O (input/output)

performance with each additional recovery thread that is spawned,

and wherein the system ceases spawning additional recovery

threads and puts a just-spawned recovery thread to sleep when I/O

performance for the just-spawned recovery thread degrades

beyond a desired amount;

wherein a user of the system is able to specify a particular number of

concurrent recovery threads, and wherein the system

generates an advisory if the particular number of concurrent

recovery threads specified can be changed to achieve better

I/O performance.

Claim 26 is cancelled.

In claim 27:

27. (Currently Amended) In a database system, an auto-tuning method for

performing database recovery in a manner that dynamically adjusts

how many recovery threads are spawned based on current

performance, the method comprising:

spawning a thread to perform database recovery and recording statistics

about performance associated with that thread; and

during recovery, dynamically adjusting how many threads are spawned by

performing substeps of:

attempting to spawn additional threads to perform database recovery and

recording statistics about performance associated with each

additional thread spawned;

and if the performance measured for a just-spawned thread degrades

beyond a desired amount, freezing execution of the just-spawned

thread and ceasing any attempt to spawn additional threads for

database recovery**;**

wherein a user of the system is able to specify a particular number of

concurrent threads, and wherein the system generates an

advisory if the particular number of concurrent threads

specified can be changed to achieve better I/O performance.

Claim 38 is cancelled.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-7,9-11,13-21,23-25,27-33,35-37,39 and 40 are allowable over the prior

art of record. The closest prior art of record Lahey (Patent Number 7,028,303) teaches

processing jobs by waking sleeping worker threads (column 6, lines 4-20), however it

fails to teach user specification of the number of threads and generating an advisory if

changes can be made to improve performance, these limitations being indicated in

claim 1, 15 and 27 as "a user of the system is able to specify a particular number of

concurrent threads, and wherein the system generates an advisory if the particular

number of concurrent threads specified can be changed to achieve better I/O

performance".

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jay A. Morrison whose telephone number is (571) 272-

7112. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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